

Trib	Dist Site		Qcalc	Site ID	Cl	SO4	pH	Ald
0	0 Upstream from injection		64.30-FU		0.42	128.62	6.40	
0	300 ELK1 site. First synoptic site		64.3300-UFA		4.34	129.94	6.43	0.015
1	390 STP drain		1.4390-UFA		7.73	159.06	5.58	0.286
0	420 Blw STP		65.7420-UFA		4.29	130.54	6.75	0.022
1	460 Animas River ab Mineral Creek		82.9460-UFA		0.49	158.22	6.90	0.036
0	512B verticle at EDI. Mixing zone with Animas.		512B-UFA			6.94	0.065	
0	512E verticle at EDI		512E-UFA			6.89	0.036	
0	512D verticle at EDI		512D-UFA			6.96	0.037	
0	512A verticle at EDI		512A-UFA			7.06	0.045	
0	512C verticle at EDI		512C-UFA			6.85	0.054	
0	807 Downstream from braids		148.6807-UFA		3.59	147.88	6.61	0.094
0	992 Upstream from more braids		148.6992-UFA		3.59	147.24	6.82	0.029
0	1262 Downstream from next braids		148.61262-UFA		2.17	147.94	6.75	0.037
0	1792 ELK2 site. A72 gage.		164.41792-UFA		1.98	149.16	7.07	0.027
0	2032 Downstream from RR bridge		168.22032-UFA		1.94	152.96	6.69	0.008
0	2272 Ab Deadwood Gulch		168.22272-UFA		1.94	152.11	6.91	0.012
1	2297 Deadwood Gulch.		0.22297-UFA		0.21	34.45	7.58	0.027
0	2542 Below Deadwood Gulch		168.42542-UFA		1.98	152.87	7.07	0.038
0	2982 ELK3 site. Above Kendall Gulch		176.32982B-UFA		1.9	146.77	7.00	0.042
0	2982 ELK3 site. Above Kendall Gulch		176.32982A-UFA		1.9	146.77	7.22	0.036
1	3053 Kendall Gulch.		0.73053-UFA		0.15	11.61	7.82	0.031
0	3342 Below Kendall Gulch		177.03342-UFA		2.05	149.31	7.03	0.031
0	3733 Above Deer Park Creek. Hydrosphere site		177.03733-UFA		2.19	145.39	7.07	0.044
1	3763 Deer Park Creek.		1.13763-UFA		0.17	11.31	7.74	0.003
0	4003 Below Deer Park Creek. Hydrosphere site		178.14003-UFA		3.1	144.55	6.99	0.045
0	4353 No visible inflows upstream from here.		4353-UFA			6.99	0.022	
0	4773 Blw seeps at the bases of small gulches.		179.04773-UFA		1.93	145.23	6.91	0.042
0	5073 Above Sultan Creek.		179.85073-UFA		1.97	145.63	7.08	0.032
1	5123 Sultan Creek		5.45123-UFA		0.32	14.73	7.84	< 0.001
0	5493 Below Sultan Creek		185.25493-UFA		1.85	141.84	7.17	0.139
1	5723 Small flow under RR bridge		0.65723-UFA		0.15	4.36	7.08	0.021
0	5908 Below small inflow		185.85908-UFA		1.89	141.86	6.86	0.040
0	6268 Channel is less spread out here		186.46268-UFA		1.84	142.76	7.23	0.052
1	6538 Through pipe under RR--two pipes.		2.46538-UFA		0.29	13.19	8.01	0.020
0	6788 Below inflow from pipes		188.86788-UFA		1.82	141.44	7.38	0.039
0	7208 Above Whitehead Gulch		189.07208-UFA		1.83	141.26	7.41	0.048
1	7496 Whitehead Gulch		1.37496-UFA		0.14	12.31	7.91	0.019
0	7786 Below Whitehead Gulch		190.37786-UFA		1.81	140.41	6.34	0.048
0	8086 Above rapid at large rock in stream.		190.58086-UFA		1.87	142.58	7.24	0.045
0	8466 Above Molas Creek		193.58466-UFA		1.81	140.5	7.19	0.046
1	8486 Molas Creek.		0.68486-UFA		0.21	5.72	8.05	0.019
0	8651 bridge.		194.18651-UFA		1.85	140.13	7.31	0.049

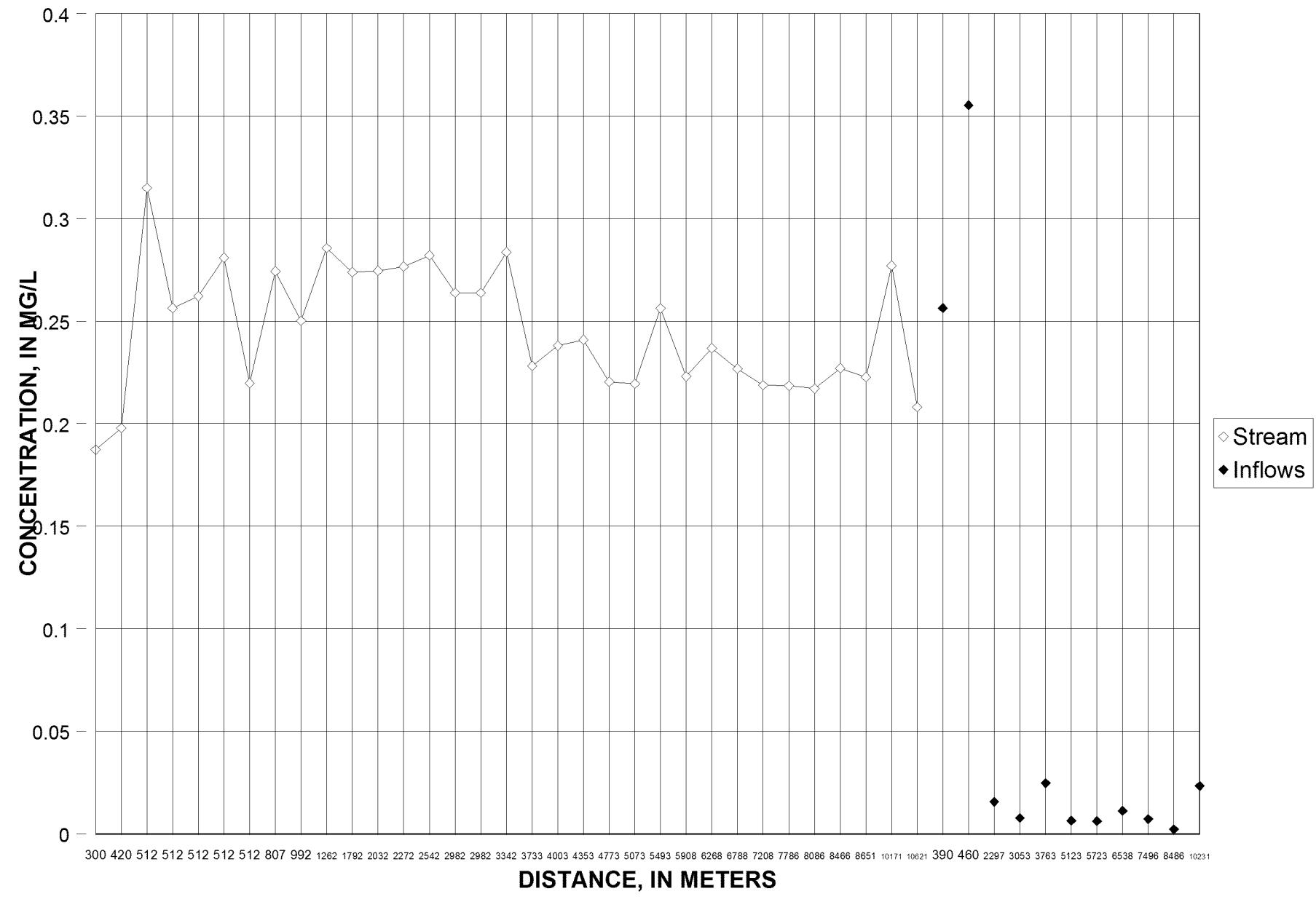
0	10171	Above Elk Park Creek. Split for Hydrosphere	204.010171-UFA	1.77	136.71	7.19	0.037
1	10231	Elk Park Creek. Split for Hydrosphere	19.810231-UFA	0.19	11.07	7.40	0.013
0	10621	Below Elk Park Creek. Split for Hydrosphere.	223.810621-UFA	1.63	125.31	7.18	0.039

Alc	Asd	Asc	Bd	Bc	Cad	Cdd	Cdc	Cr	Cud	Cuc	Fed	Fec	Kd
1.817	0.004	< 0.001	0.002	< 0.001	48.3	0.001	< 0.001	< 0.001	0.003	0.026	0.722	1.883	0.4
0.018	< 0.001	< 0.001	0.011	< 0.001	56.6	0.002	< 0.001	0.002	0.005	< 0.001	0.001	0.006	1.0
1.791	0.008	0.003	0.004	< 0.001	47.7	< 0.001	0.002	< 0.001	0.005	0.025	0.460	2.087	0.4
0.988	0.004	0.008	< 0.001	0.001	63.0	< 0.001	< 0.001	< 0.001	0.009	0.002	0.045	0.995	0.8
1.040	0.009	< 0.001	0.004	< 0.001	57.4	< 0.001	0.001	< 0.001	0.015	< 0.001	0.059	1.263	0.6
1.181	< 0.001	0.006	0.005	< 0.001	54.2	0.002	< 0.001	< 0.001	0.011	0.008	0.131	1.487	1.0
1.271	0.004	0.009	0.003	< 0.001	52.0	0.002	< 0.001	0.001	0.005	0.013	0.248	1.379	0.7
1.173	< 0.001	0.010	0.004	0.001	57.5	0.002	< 0.001	< 0.001	0.004	0.012	0.189	1.211	0.5
1.066	< 0.001	0.006	0.004	< 0.001	55.4	0.001	< 0.001	< 0.001	0.004	0.010	0.039	1.348	0.8
1.279	0.009	0.003	0.005	< 0.001	56.3	< 0.001	< 0.001	< 0.001	0.006	0.015	0.118	1.465	1.1
1.208	0.007	0.005	0.005	< 0.001	56.7	0.001	0.001	< 0.001	0.002	0.014	0.082	1.521	0.7
1.394	< 0.001	0.011	0.005	< 0.001	57.2	0.001	< 0.001	< 0.001	0.014	0.004	0.078	1.730	0.8
1.301	0.008	< 0.001	0.003	< 0.001	56.6	0.001	< 0.001	< 0.001	0.008	0.010	0.145	1.424	0.7
1.383	< 0.001	< 0.001	< 0.001	0.001	57.6	0.002	< 0.001	< 0.001	0.002	0.015	0.008	1.543	0.4
1.444	0.003	< 0.001	0.002	< 0.001	56.6	< 0.001	< 0.001	< 0.001	0.005	0.017	0.177	1.478	0.8
< 0.001	< 0.001	< 0.001	0.008	< 0.001	24.6	< 0.001	< 0.001	< 0.001	0.009	< 0.001	0.005	0.008	0.5
1.417	< 0.001	0.003	0.004	< 0.001	55.6	0.003	< 0.001	< 0.001	0.004	0.012	0.164	1.320	1.0
1.310	< 0.001	0.011	0.002	< 0.001	56.3	0.003	< 0.001	< 0.001	0.004	0.014	0.044	1.370	0.6
1.331	0.008	< 0.001	0.002	< 0.001	56.3	0.002	< 0.001	< 0.001	0.005	0.013	0.055	1.378	0.5
< 0.001	< 0.001	0.005	0.003	< 0.001	22.8	< 0.001	< 0.001	< 0.001	0.011	< 0.001	0.005	0.002	0.3
1.229	< 0.001	< 0.001	< 0.001	< 0.001	54.5	0.003	< 0.001	< 0.001	0.016	0.001	0.029	1.307	0.5
1.286	< 0.001	< 0.001	< 0.001	< 0.001	56.3	0.003	0.001	< 0.001	0.001	0.016	0.005	1.457	0.8
< 0.001	< 0.001	0.013	< 0.001	< 0.001	20.7	< 0.001	< 0.001	< 0.001	0.013	< 0.001	0.007	0.009	0.3
1.386	0.006	< 0.001	0.003	< 0.001	54.1	0.001	< 0.001	< 0.001	0.006	0.013	0.017	1.833	0.6
1.380	0.006	< 0.001	0.001	< 0.001	56.9	< 0.001	< 0.001	< 0.001	0.006	0.014	0.013	1.658	0.7
1.331	< 0.001	< 0.001	0.001	< 0.001	53.9	< 0.001	0.002	< 0.001	0.004	0.016	0.016	1.570	0.9
1.350	< 0.001	0.016	0.001	0.002	53.9	0.003	< 0.001	< 0.001	0.004	0.015	0.006	1.581	0.7
0.002	0.005	< 0.001	0.005	< 0.001	30.7	0.002	< 0.001	0.002	0.004	< 0.001	< 0.001	0.001	0.7
1.120	< 0.001	0.004	0.002	0.002	54.8	0.002	0.001	0.001	0.007	0.011	0.020	1.433	0.8
0.037	0.009	< 0.001	< 0.001	0.003	8.3	0.002	< 0.001	0.001	0.003	< 0.001	0.008	0.042	0.7
1.225	< 0.001	< 0.001	0.002	0.001	54.7	0.003	< 0.001	0.001	0.006	0.013	0.004	1.461	0.8
1.190	< 0.001	0.007	0.001	< 0.001	56.5	0.003	< 0.001	< 0.001	0.003	0.015	0.007	1.421	0.9
0.010	< 0.001	0.019	0.006	< 0.001	30.4	0.001	< 0.001	0.002	0.010	< 0.001	0.004	0.068	1.0
1.182	< 0.001	< 0.001	0.002	< 0.001	54.9	0.001	0.002	< 0.001	0.004	0.014	0.006	1.397	0.7
1.174	< 0.001	0.012	0.002	0.002	56.6	0.003	< 0.001	< 0.001	0.006	0.010	< 0.001	1.390	0.8
< 0.001	0.001	< 0.001	0.001		20.6	0.001	< 0.001	0.001	0.004	< 0.001	0.002		0.6
1.154	< 0.001	0.011	0.001	< 0.001	56.1	0.002	< 0.001	< 0.001	0.003	0.012	0.002	1.397	0.8
1.111	< 0.001	0.011	0.002	< 0.001	54.2	0.002	< 0.001	< 0.001	0.004	0.013	< 0.001	1.310	0.8
1.130	< 0.001	0.001	0.003	< 0.001	53.9	0.002	< 0.001	< 0.001	0.008	0.007	0.002	1.355	0.9
< 0.001	< 0.001	0.019	< 0.001	0.004	19.8	0.003	< 0.001	< 0.001	0.004	< 0.001	< 0.001	0.014	0.04
1.079	0.003	< 0.001	0.001	0.002	54.4	0.003	< 0.001	< 0.001	0.003	0.014	< 0.001	1.289	0.8

1.100	< 0.001	0.002	0.002	< 0.001	53.2	0.002	0.001	< 0.001	0.007	0.008	< 0.001	1.305	0.6
0.080	< 0.001	0.008	< 0.001	< 0.001	4.5	0.002	< 0.001	0.003	0.007	< 0.001	0.002	0.018	0.8
0.950	< 0.001	0.001	0.001	< 0.001	46.5	0.002	0.001	< 0.001	0.005	0.009	0.008	1.117	0.8

Mgd	Mnd	Mnc	Nad	Nid	Pb	Pbd	Sid	Sic	Srd	Src	Znd	Znc
4.02	0.270	0.002	5.0	0.002	< 0.001	< 0.001	5.07	0.532	0.421	0.002	0.187	0.030
4.73	0.100	0.004	3.3	0.004	< 0.001	< 0.001	7.87	0.295	0.539	0.024	0.256	0.003
3.95	0.259	0.014	4.9	0.004	< 0.001	< 0.001	5.01	0.758	0.414	0.018	0.198	0.024
3.51	0.966	0.057	2.3	0.002	< 0.001	0.002	4.87	0.522	0.643	0.040	0.355	0.060
3.61	0.723	0.021	3.2	0.005	0.005	0.008	4.86	0.410	0.567	0.013	0.315	0.012
3.79	0.553	0.017	3.8	0.001	0.040	0.001	4.99	0.468	0.515	0.014	0.256	0.032
3.51	0.563	0.042	3.4	0.001	0.025	0.007	4.69	0.653	0.492	0.039	0.262	0.033
3.54	0.756	0.044	2.8	< 0.001	< 0.001	< 0.001	4.86	0.526	0.570	0.036	0.281	0.066
3.61	0.656	0.036	3.3	0.005	< 0.001	< 0.001	4.89	0.495	0.541	0.029	0.220	0.095
3.95	0.684	0.038	3.4	0.003	< 0.001	0.004	4.95	0.663	0.542	0.025	0.274	0.039
4.18	0.677	0.038	3.4	0.003	0.005	< 0.001	5.04	0.653	0.549	0.021	0.250	0.057
3.79	0.650	0.004	3.5	0.004	0.021	< 0.001	5.15	0.343	0.560	< 0.001	0.286	0.022
3.73	0.633	0.031	3.4	0.003	0.021	< 0.001	5.13	0.541	0.547	0.029	0.274	0.048
3.76	0.666	0.002	3.2	< 0.001	< 0.001	< 0.001	5.06	0.475	0.554	< 0.001	0.275	0.035
3.70	0.655	0.018	3.3	0.001	< 0.001	< 0.001	5.03	0.557	0.540	0.014	0.277	0.039
1.91	0.001	0.001	1.3	< 0.001	0.034	0.010	2.26	0.106	0.114	0.009	0.016	< 0.001
3.67	0.649	0.027	3.2	< 0.001	< 0.001	< 0.001	5.07	0.594	0.537	0.025	0.282	0.029
3.72	0.660	0.014	3.3	< 0.001	< 0.001	< 0.001	5.07	0.460	0.546	0.008	0.264	0.039
3.75	0.662	0.022	3.3	< 0.001	< 0.001	< 0.001	5.13	0.498	0.545	0.019	0.264	0.054
1.99	< 0.001	0.001	1.3	0.002	0.043	< 0.001	2.05	0.007	0.272	< 0.001	0.008	0.001
3.68	0.652	0.021	3.2	< 0.001	< 0.001	< 0.001	5.09	0.367	0.531	0.018	0.284	0.015
3.82	0.668	0.032	3.3	0.001	< 0.001	< 0.001	5.04	0.600	0.545	0.021	0.228	0.081
2.54	0.001	0.001	1.3	0.001	0.008	0.003	1.61	0.057	0.193	0.012	0.025	< 0.001
3.98	0.612	0.058	3.3	< 0.001	0.010	0.013	4.90	0.897	0.516	0.042	0.238	0.069
3.75	0.616	0.017	3.4	0.003	0.007	0.010	5.00	0.586	0.548	0.008	0.241	0.062
3.58	0.590	0.041	3.2	0.003	0.024	< 0.001	4.85	0.697	0.521	0.036	0.220	0.081
3.57	0.588	0.028	3.3	0.002	0.006	0.012	4.78	0.654	0.519	0.024	0.219	0.077
4.86	< 0.001	< 0.001	1.6	< 0.001	0.005	0.017	2.40	0.039	0.130	0.003	0.006	< 0.001
3.66	0.593	0.022	3.3	< 0.001	< 0.001	0.007	4.89	0.523	0.527	0.018	0.256	0.037
1.32	0.001	0.003	0.7	0.003	0.038	0.036	1.89	0.031	0.029	< 0.001	0.006	< 0.001
3.65	0.594	0.020	3.3	0.003	< 0.001	0.011	4.85	0.535	0.527	0.015	0.223	0.077
3.77	0.611	0.016	3.4	< 0.001	0.006	0.002	4.96	0.544	0.547	0.010	0.237	0.069
6.09	< 0.001	0.004	1.2	0.003	0.034	0.032	2.57	0.055	0.092	< 0.001	0.011	< 0.001
3.71	0.599	0.027	3.3	0.001	< 0.001	0.015	4.94	0.543	0.532	0.025	0.227	0.080
3.78	0.611	0.027	3.4	< 0.001	< 0.001	0.012	4.97	0.602	0.545	0.020	0.219	0.096
2.06	< 0.001		1.5	0.001	0.023	0.034	1.79		0.222		0.007	< 0.001
3.74	0.603	0.018	3.4	0.001	< 0.001	0.011	4.91	0.579	0.539	0.014	0.218	0.089
3.66	0.583	0.032	3.3	< 0.001	0.009	0.018	4.82	0.602	0.519	0.029	0.217	0.091
3.65	0.581	0.016	3.2	0.002	0.028	0.023	4.79	0.500	0.516	0.016	0.227	0.082
4.87	< 0.001	0.003	0.7	< 0.001	< 0.001	< 0.001	1.31	0.025	0.053	0.001	0.002	< 0.001
3.71	0.582	0.028	3.3	< 0.001	< 0.001	0.012	4.75	0.616	0.521	0.019	0.223	0.094

3.61	0.564	0.041	3.0	< 0.001	< 0.001	0.004	4.64	0.722	0.506	0.037	0.277	0.047
1.47	0.002	0.004	0.6	0.003	0.008	0.026	1.54	0.002	0.031	0.003	0.023	< 0.001
3.33	0.490	0.031	2.9	< 0.001	0.018	0.016	4.33	0.514	0.440	0.029	0.208	0.075



Trib	Comment	Dist	Stream	Inflows	Znd	pH	Ald	Alc	Asd
0	ELK1 site. First synoptic site	3000.187			0.187	6.40	0.015	1.817	0.004
0	Blw STP	4200.198			0.198	5.58	0.022	1.791	0.008
0	B verticle at EDI. Mixing zone with Animas.	5120.315			0.315	6.90	0.065	1.040	0.009
0	E verticle at EDI	5120.256			0.256	6.94	0.036	1.181	0.001
0	D verticle at EDI	5120.262			0.262	6.89	0.037	1.271	0.004
0	A verticle at EDI	5120.281			0.281	6.96	0.045	1.173	0.001
0	C verticle at EDI	5120.220			0.220	7.06	0.054	1.066	0.001
0	Downstream from braids	8070.274			0.274	6.85	0.094	1.279	0.009
0	Upstream from more braids	9920.250			0.250	6.61	0.029	1.208	0.007
0	Downstream from next braids	12620.286			0.286	6.82	0.037	1.394	0.001
0	ELK2 site. A72 gage.	17920.274			0.274	6.75	0.027	1.301	0.008
0	Downstream from RR bridge	20320.275			0.275		0.008	1.383	0.001
0	Ab Deadwood Gulch	22720.277			0.277	7.07	0.012	1.444	0.003
0	Below Deadwood Gulch	25420.282			0.282	7.58	0.038	1.417	0.001
0	ELK3 site. Above Kendall Gulch	29820.264			0.264	7.07	0.042	1.310	0.001
0	ELK3 site. Above Kendall Gulch	29820.264			0.264	7.00	0.036	1.331	0.008
0	Below Kendall Gulch	33420.284			0.284	7.82	0.031	1.229	0.001
0	Above Deer Park Creek. Hydrosphere site	37330.228			0.228	7.03	0.044	1.286	0.001
0	Below Deer Park Creek. Hydrosphere site	40030.238			0.238	7.74	0.045	1.386	0.006
0	No visible inflows upstream from here.	43530.241			0.241	6.99	0.022	1.380	0.006
0	Blw seeps at the bases of small gulches.	47730.220			0.220	6.99	0.042	1.331	0.001
0	Above Sultan Creek.	50730.219			0.219	6.91	0.032	1.350	0.001
0	Below Sultan Creek	54930.256			0.256	7.84	0.139	1.120	0.001
0	Below small inflow	59080.223			0.223	7.08	0.040	1.225	0.001
0	Channel is less spread out here	62680.237			0.237	6.86	0.052	1.190	0.001
0	Below inflow from pipes	67880.227			0.227	8.01	0.039	1.182	0.001
0	Above Whitehead Gulch	72080.219			0.219	7.38	0.048	1.174	0.001
0	Below Whitehead Gulch	77860.218			0.218	7.91	0.048	1.154	0.001
0	Above rapid at large rock in stream.	80860.217			0.217	7.24	0.045	1.111	0.001
0	Above Molas Creek	84660.227			0.227	7.19	0.046	1.130	0.001
ELK4	site. Below Molas Creek at hiking bridge.	86510.223			0.223	7.31	0.049	1.079	0.003
0	Above Elk Park Creek. Split for Hydrosphere	101710.277			0.277	7.19	0.037	1.100	0.001
0	Below Elk Park Creek. Split for Hydrosphere.	106210.208			0.208	7.18	0.039	0.950	0.001
1	STP drain	390		0.256	0.256	6.43	0.286	0.018	0.001
1	Animas River ab Mineral Creek	460		0.355	0.355	6.75	0.036	0.988	0.004
1	Deadwood Gulch.	2297		0.016	0.016	6.91	0.027	0.001	0.001
1	Kendall Gulch.	3053		0.008	0.008	7.22	0.031	0.001	0.001
1	Deer Park Creek.	3763		0.025	0.025	7.07	0.003	0.001	0.001
1	Sultan Creek	5123		0.006	0.006	7.08	0.001	0.002	0.005
1	Small flow under RR bridge	5723		0.006	0.006	7.17	0.021	0.037	0.009
1	Through pipe under RR--two pipes.	6538		0.011	0.011	7.23	0.020	0.010	0.001
1	Whitehead Gulch	7496		0.007	0.007	7.41	0.019	0.001	0.001
1	Molas Creek.	8486		0.002	0.002	8.05	0.019	0.001	0.001
1	Elk Park Creek. Split for Hydrosphere	10231		0.023	0.023	7.40	0.013	0.080	0.001

Injection site
Hydrosphere biofilm site
Braiding starts
Railroad gate at 495 miles
Railroad sign at 494 miles
Railroad sign at 493 miles

Asc	Bd	Bc	Cad	Cdd	Cdc	Cr	Cud	Cut	Fed	Fec	Kd	Mgd	Mnd	Mnc	Nad
0.001	0.002	0.001	48.3	0.001	0.001	0.001	0.003	0.026	0.722	1.883	0.4	4.02	0.270	0.002	5.0
0.003	0.004	0.001	47.7	0.001	0.002	0.001	0.005	0.025	0.460	2.087	0.4	3.95	0.259	0.014	4.9
0.001	0.004	0.001	57.4	0.001	0.001	0.001	0.015	0.001	0.059	1.263	0.6	3.61	0.723	0.021	3.2
0.006	0.005	0.001	54.2	0.002	0.001	0.001	0.011	0.008	0.131	1.487	1.0	3.79	0.553	0.017	3.8
0.009	0.003	0.000	52.0	0.002	0.001	0.001	0.005	0.013	0.248	1.379	0.7	3.51	0.563	0.042	3.4
0.010	0.004	0.001	57.5	0.002	0.001	0.001	0.004	0.012	0.189	1.211	0.5	3.54	0.756	0.044	2.8
0.006	0.004	0.001	55.4	0.001	0.001	0.001	0.004	0.010	0.039	1.348	0.8	3.61	0.656	0.036	3.3
0.003	0.005	0.000	56.3	0.001	0.001	0.001	0.006	0.015	0.118	1.465	1.1	3.95	0.684	0.038	3.4
0.005	0.005	0.000	56.7	0.001	0.001	0.001	0.002	0.014	0.082	1.521	0.7	4.18	0.677	0.038	3.4
0.011	0.005	0.001	57.2	0.001	0.001	0.001	0.014	0.004	0.078	1.730	0.8	3.79	0.650	0.004	3.5
0.001	0.003	0.001	56.6	0.001	0.001	0.001	0.008	0.010	0.145	1.424	0.7	3.73	0.633	0.031	3.4
0.001	0.001	0.001	57.6	0.002	0.001	0.001	0.002	0.015	0.008	1.543	0.4	3.76	0.666	0.002	3.2
0.001	0.002	0.001	56.6	0.001	0.001	0.001	0.005	0.017	0.177	1.478	0.8	3.70	0.655	0.018	3.3
0.003	0.004	0.001	55.6	0.003	0.000	0.001	0.004	0.012	0.164	1.320	1.0	3.67	0.649	0.027	3.2
0.011	0.002	0.001	56.3	0.003	0.001	0.001	0.004	0.014	0.044	1.370	0.6	3.72	0.660	0.014	3.3
0.001	0.002	0.001	56.3	0.002	0.001	0.001	0.005	0.013	0.055	1.378	0.5	3.75	0.662	0.022	3.3
0.001	0.001	0.001	54.5	0.003	0.001	0.001	0.016	0.001	0.029	1.307	0.5	3.68	0.652	0.021	3.2
0.001	0.001	0.001	56.3	0.003	0.001	0.001	0.001	0.016	0.005	1.457	0.8	3.82	0.668	0.032	3.3
0.001	0.003	0.001	54.1	0.001	0.001	0.001	0.006	0.013	0.017	1.833	0.6	3.98	0.612	0.058	3.3
0.001	0.001	0.000	56.9	0.001	0.001	0.001	0.006	0.014	0.013	1.658	0.7	3.75	0.616	0.017	3.4
0.001	0.001	0.001	53.9	0.001	0.002	0.001	0.004	0.016	0.016	1.570	0.9	3.58	0.590	0.041	3.2
0.016	0.001	0.002	53.9	0.003	0.001	0.001	0.004	0.015	0.006	1.581	0.7	3.57	0.588	0.028	3.3
0.004	0.002	0.002	54.8	0.002	0.001	0.001	0.007	0.011	0.020	1.433	0.8	3.66	0.593	0.022	3.3
0.001	0.002	0.001	54.7	0.003	0.001	0.001	0.006	0.013	0.004	1.461	0.8	3.65	0.594	0.020	3.3
0.007	0.001	0.000	56.5	0.003	0.001	0.001	0.003	0.015	0.007	1.421	0.9	3.77	0.611	0.016	3.4
0.001	0.002	0.001	54.9	0.001	0.002	0.001	0.004	0.014	0.006	1.397	0.7	3.71	0.599	0.027	3.3
0.012	0.002	0.002	56.6	0.003	0.001	0.001	0.006	0.010	0.001	1.390	0.8	3.78	0.611	0.027	3.4
0.011	0.001	0.001	56.1	0.002	0.001	0.001	0.003	0.012	0.002	1.397	0.8	3.74	0.603	0.018	3.4
0.011	0.002	0.000	54.2	0.002	0.001	0.001	0.004	0.013	0.001	1.310	0.8	3.66	0.583	0.032	3.3
0.001	0.003	0.001	53.9	0.002	0.001	0.001	0.008	0.007	0.002	1.355	0.9	3.65	0.581	0.016	3.2
0.001	0.001	0.002	54.4	0.003	0.001	0.001	0.003	0.014	0.001	1.289	0.8	3.71	0.582	0.028	3.3
0.002	0.002	0.000	53.2	0.002	0.001	0.001	0.007	0.008	0.001	1.305	0.6	3.61	0.564	0.041	3.0
0.001	0.001	0.001	46.5	0.002	0.001	0.001	0.005	0.009	0.008	1.117	0.8	3.33	0.490	0.031	2.9
0.001	0.011	0.001	56.6	0.002	0.001	0.002	0.005	0.001	0.001	0.006	1.0	4.73	0.100	0.004	3.3
0.008	0.001	0.001	63.0	0.001	0.001	0.001	0.009	0.002	0.045	0.995	0.8	3.51	0.966	0.057	2.3
0.001	0.008	0.001	24.6	0.001	0.001	0.001	0.009	0.001	0.005	0.008	0.5	1.91	0.001	0.001	1.3
0.005	0.003	0.001	22.8	0.001	0.001	0.001	0.011	0.001	0.005	0.002	0.3	1.99	0.001	0.001	1.3
0.013	0.001	0.001	20.7	0.001	0.001	0.001	0.013	0.001	0.007	0.009	0.3	2.54	0.001	0.001	1.3
0.001	0.005	0.001	30.7	0.002	0.001	0.002	0.004	0.001	0.001	0.001	0.7	4.86	0.001	0.001	1.6
0.001	0.001	0.003	8.3	0.002	0.001	0.001	0.003	0.001	0.008	0.042	0.7	1.32	0.001	0.003	0.7
0.019	0.006	0.001	30.4	0.001	0.001	0.002	0.010	0.001	0.004	0.068	1.0	6.09	0.001	0.004	1.2
0.000	0.001		20.6	0.001	0.001	0.001	0.004	0.001	0.002		0.6	2.06	0.001		1.5
0.019	0.001	0.004	19.8	0.003	0.001	0.001	0.004	0.001	0.001	0.014	0.4	4.87	0.001	0.003	0.7
0.008	0.001	0.001	4.5	0.002	0.001	0.003	0.007	0.001	0.002	0.018	0.8	1.47	0.002	0.004	0.6

Nid	Pd	Pbd	Sid	Sic	Srd	Src	Znd	Znc
0.002	0.001	0.001	5.07	0.532	0.421	0.002	0.187	0.030
0.004	0.001	0.001	5.01	0.758	0.414	0.018	0.198	0.024
0.005	0.005	0.008	4.86	0.410	0.567	0.013	0.315	0.012
0.001	0.040	0.001	4.99	0.468	0.515	0.014	0.256	0.032
0.001	0.025	0.007	4.69	0.653	0.492	0.039	0.262	0.033
0.001	0.001	0.001	4.86	0.526	0.570	0.036	0.281	0.066
0.005	0.001	0.001	4.89	0.495	0.541	0.029	0.220	0.095
0.003	0.001	0.004	4.95	0.663	0.542	0.025	0.274	0.039
0.003	0.005	0.001	5.04	0.653	0.549	0.021	0.250	0.057
0.004	0.021	0.001	5.15	0.343	0.560	0.001	0.286	0.022
0.003	0.021	0.001	5.13	0.541	0.547	0.029	0.274	0.048
0.001	0.001	0.001	5.06	0.475	0.554	0.001	0.275	0.035
0.001	0.001	0.001	5.03	0.557	0.540	0.014	0.277	0.039
0.001	0.001	0.001	5.07	0.594	0.537	0.025	0.282	0.029
0.001	0.001	0.001	5.07	0.460	0.546	0.008	0.264	0.039
0.001	0.001	0.001	5.13	0.498	0.545	0.019	0.264	0.054
0.001	0.001	0.001	5.09	0.367	0.531	0.018	0.284	0.015
0.001	0.001	0.001	5.04	0.600	0.545	0.021	0.228	0.081
0.001	0.010	0.013	4.90	0.897	0.516	0.042	0.238	0.069
0.003	0.007	0.010	5.00	0.586	0.548	0.008	0.241	0.062
0.003	0.024	0.001	4.85	0.697	0.521	0.036	0.220	0.081
0.002	0.006	0.012	4.78	0.654	0.519	0.024	0.219	0.077
0.001	0.001	0.007	4.89	0.523	0.527	0.018	0.256	0.037
0.003	0.001	0.011	4.85	0.535	0.527	0.015	0.223	0.077
0.001	0.006	0.002	4.96	0.544	0.547	0.010	0.237	0.069
0.001	0.001	0.015	4.94	0.543	0.532	0.025	0.227	0.080
0.001	0.001	0.012	4.97	0.602	0.545	0.020	0.219	0.096
0.001	0.001	0.011	4.91	0.579	0.539	0.014	0.218	0.089
0.001	0.009	0.018	4.82	0.602	0.519	0.029	0.217	0.091
0.002	0.028	0.023	4.79	0.500	0.516	0.016	0.227	0.082
0.001	0.001	0.012	4.75	0.616	0.521	0.019	0.223	0.094
0.001	0.001	0.004	4.64	0.722	0.506	0.037	0.277	0.047
0.001	0.018	0.016	4.33	0.514	0.440	0.029	0.208	0.075
0.004	0.001	0.001	7.87	0.295	0.539	0.024	0.256	0.003
0.002	0.001	0.002	4.87	0.522	0.643	0.040	0.355	0.060
0.001	0.034	0.010	2.26	0.106	0.114	0.009	0.016	0.001
0.002	0.043	0.001	2.05	0.007	0.272	0.001	0.008	0.001
0.001	0.008	0.003	1.61	0.057	0.193	0.012	0.025	0.001
0.001	0.005	0.017	2.40	0.039	0.130	0.003	0.006	0.001
0.003	0.038	0.036	1.89	0.031	0.029	0.001	0.006	0.001
0.003	0.034	0.032	2.57	0.055	0.092	0.001	0.011	0.001
0.001	0.023	0.034	1.79		0.222		0.007	0.001
0.001	0.001	0.001	1.31	0.025	0.053	0.001	0.002	0.001
0.003	0.008	0.026	1.54	0.002	0.031	0.003	0.023	0.001

Site ID	pH	Zn	Total	Ald	Alc	Asd	Asc	Bd	Bc	Cad	Cdd	Cdc	Cr	Cud	Cut	Fed	Fec	Kd	Mgd	Mnd	MncNad	Nid	Pd	Pbd	Sid	
300-RA	6.40	0.22		1.832		0.000		0.000		48.5	0.001		0.000	0.029		2.605		0.2	4.03	0.273		5.0	0.002	-0.050	0.008	5.60
300-UFA		0.19	0.030	0.015	1.817	0.004	-0.005	0.002	-0.001	48.3	0.001	0.000	0.000	0.003	0.026	0.722	1.883	0.4	4.02	0.270	0.002	5.0	0.002	0.000	-0.014	5.07
390-RA	6.43	0.26		0.304		-0.012		0.009		58.8	0.000		0.001	0.003		0.007		1.0	4.91	0.104		3.5	0.003	-0.032	-0.004	8.17
390-UFA		0.26	0.003	0.286	0.018	-0.007	-0.005	0.011	-0.002	56.6	0.002	-0.002	0.002	0.005	-0.002	0.001	0.006	1.0	4.73	0.100	0.004	3.3	0.004	0.000	-0.014	7.87
420-RA	5.58	0.22		1.813		0.011		0.004		49.6	0.001		0.000	0.030		2.547		0.4	4.10	0.273		5.0	0.004	0.022	0.000	5.77
420-FA		0.19		0.020		0.007		0.003		48.0	-0.001		0.000	0.003		0.572		0.4	3.97	0.261		4.9	0.001	0.005	-0.002	5.07
420-UFA		0.20	0.024	0.022	1.791	0.008	0.003	0.004	-0.001	47.7	-0.002	0.002	0.000	0.005	0.025	0.460	2.087	0.4	3.95	0.259	0.014	4.9	0.004	0.001	-0.014	5.01
460-RA	6.75	0.42		1.024		0.012		0.000		66.9	-0.002		0.000	0.011		1.040		0.8	3.69	1.023		2.4	0.004	0.016	0.002	5.39
460-FA		0.35		0.034		0.005		0.000		63.3	-0.001		0.000	0.002		0.087		0.6	3.50	0.964		2.3	0.001	0.025	-0.010	4.85
460-UFA		0.36	0.060	0.036	0.988	0.004	0.008	-0.001	0.001	63.0	-0.001	-0.001	0.000	0.009	0.002	0.045	0.995	0.8	3.51	0.966	0.057	2.3	0.002	-0.002	0.002	4.87
512A-RA	6.96	0.35		1.218		0.009		0.006		61.0	0.002		0.001	0.016		1.400		0.8	3.72	0.801		2.9	0.001	0.008	-0.003	5.39
512A-FA		0.30		0.031		-0.005		0.004		60.1	0.001		0.000	0.001		0.320		0.6	3.68	0.787		2.9	0.003	-0.008	-0.002	5.02
512A-UFA		0.28	0.066	0.045	1.173	-0.001	0.010	0.004	0.001	57.5	0.002	-0.001	-0.001	0.004	0.012	0.189	1.211	0.5	3.54	0.756	0.044	2.8	0.001	-0.011	-0.003	4.86
512B-RA	6.90	0.33		1.105		0.005		0.003		59.0	0.001		0.001	0.015		1.322		0.8	3.68	0.744		3.1	0.003	0.021	0.008	5.27
512B-FA		0.29		0.028		0.000		0.004		57.9	0.000		-0.001	0.002		0.077		0.6	3.60	0.724		3.0	0.005	0.019	0.002	4.86
512B-UFA		0.31	0.012	0.065	1.040	0.009	-0.004	0.004	-0.001	57.4	0.000	0.001	-0.001	0.015	0.000	0.059	1.263	0.6	3.61	0.723	0.021	3.2	0.005	0.005	0.008	4.86
512C-RA	7.06	0.31		1.120		0.005		0.003		58.4	0.001		-0.001	0.014		1.387		0.6	3.78	0.692		3.4	0.001	0.014	0.000	5.39
512C-FA		0.28		0.021		0.002		0.004		57.4	0.000		0.002	0.004		0.218		0.8	3.72	0.679		3.3	0.004	-0.001	0.002	4.98
512C-UFA		0.22	0.095	0.054	1.066	-0.001	0.006	0.004	-0.001	55.4	0.001	0.000	0.000	0.004	0.010	0.039	1.348	0.8	3.61	0.656	0.036	3.3	0.005	-0.014	-0.004	4.89
512D-RA	6.89	0.30		1.308		0.012		0.004		55.6	0.001		0.000	0.018		1.627		0.9	3.76	0.604		3.6	0.002	0.014	-0.003	5.34
512D-FA		0.26		0.038		0.016		0.002		54.7	0.000		0.000	0.008		0.352		0.9	3.68	0.592		3.6	0.003	0.011	0.009	4.93
512D-UFA		0.26	0.033	0.037	1.271	0.004	0.009	0.003	0.000	52.0	0.002	0.000	0.001	0.005	0.013	0.248	1.379	0.7	3.51	0.563	0.042	3.4	0.001	0.025	0.007	4.69
512E-RA	6.94	0.29		1.216		0.005		0.003		55.9	0.001		0.000	0.018		1.619		0.5	3.86	0.570		3.9	0.001	0.020	0.001	5.46
512E-FA		0.26		0.035		0.003		0.004		55.5	0.002		0.000	0.005		0.293		0.7	3.84	0.563		3.9	0.001	0.024	0.006	5.06
512E-UFA		0.26	0.032	0.036	1.181	0.000	0.006	0.005	-0.002	54.2	0.002	-0.001	0.001	0.011	0.008	0.131	1.487	1.0	3.79	0.553	0.017	3.8	0.001	0.040	0.001	4.99
807-RA	6.85	0.31		1.373		0.011		0.005		58.8	0.001		0.000	0.021		1.582		0.9	4.13	0.722		3.5	0.002	0.028	0.003	5.61
807-FA		0.26		0.066		0.001		0.004		54.8	0.001		0.000	0.003		0.154		0.6	3.83	0.665		3.3	0.005	0.002	0.004	4.83
807-UFA		0.27	0.039	0.094	1.279	0.009	0.003	0.005	0.000	56.3	0.001	0.000	0.000	0.006	0.015	0.118	1.465	1.1	3.95	0.684	0.038	3.4	0.003	-0.012	0.004	4.95
992-RA	6.61	0.31		1.237		0.012		0.005		58.8	0.002		0.001	0.017		1.603		1.0	4.40	0.714		3.5	0.004	0.031	0.011	5.70
992-FA		0.25		0.035		0.003		0.005		55.2	0.000		-0.001	0.001		0.102		0.6	4.07	0.654		3.4	0.003	0.012	-0.009	4.85
992-UFA		0.25	0.057	0.029	1.208	0.007	0.005	0.005	0.000	56.7	0.001	0.001	-0.001	0.002	0.014	0.082	1.521	0.7	4.18	0.677	0.038	3.4	0.003	0.005	-0.002	5.04
1262-RA	6.82	0.31		1.431		0.011		0.004		56.9	0.000		0.000	0.019		1.808		0.7	3.79	0.655		3.7	0.004	0.027	0.004	5.49
1262-FA		0.27		0.031		0.020		0.003		58.0	0.001		0.001	0.005		0.099		1.0	3.83	0.654		3.5	0.007	0.015	0.006	5.10
1262-UFA		0.29	0.022	0.037	1.394	0.000	0.011	0.005	-0.001	57.2	0.001	-0.001	0.001	0.014	0.004	0.078	1.730	0.8	3.79	0.650	0.004	3.5	0.004	0.021	-0.002	5.15
1792-RA	6.75	0.32		1.329		0.004		0.002		59.4	-0.001		0.000	0.018		1.569		0.8	3.88	0.663		3.5	0.002	0.012	0.006	5.67
1792-FA		0.28		0.022		-0.005		0.002		58.3	-0.001		-0.001	0.006		0.196		0.6	3.81	0.648		3.5	0.003	0.009	0.001	5.18
1792-UFA		0.27	0.048	0.027	1.301	0.008	-0.004	0.003	-0.001	56.6	0.001	-0.002	-0.001	0.008	0.010	0.145	1.424	0.7	3.73	0.633	0.031	3.4	0.003	0.021	-0.011	5.13
2032-RA	0.31		1.391		-0.009		0.001		57.4	0.001		-0.001	0.017		1.551		0.5	3.75	0.669		3.2	-0.001	-0.030	-0.002	5.53	
2032-FA		0.27		0.015		-0.010		0.000		57.1	0.003		-0.001	0.002		0.011		0.4	3.71	0.662		3.2	0.003	-0.029	-0.010	5.03
2032-UFA		0.27	0.035	0.008	1.383	-0.007	-0.002	0.000	0.001	57.6	0.002	0.000	-0.001	0.002	0.015	0.008	1.543	0.4	3.76	0.666	0.002	3.2	-0.002	0.000	-0.006	5.06
2272-RA	7.07	0.32		1.456		0.000		0.000		57.9	0.000		0.002	0.021		1.655		0.6	3.77	0.673		3.4	0.004	-0.010	-0.001	5.59
2272-FA		0.27		0.015		-0.012		0.000		56.2	-0.001		0.000	0.001		0.207		0.5	3.66	0.648		3.3	0.003	-0.018	-0.012	5.02
2272-UFA		0.28	0.039	0.012	1.444	0.003	-0.003	0.002	-0.002	56.6	-0.001	0.001	0.000	0.005	0.017	0.177	1.478	0.8	3.70	0.655	0.018	3.3	0.001	-0.015	-0.014	5.03
2297-RA	6.91	0.01		0.021		-0.006		0.009		26.7	-0.001		0.000	0.004		0.013		0.3	2.03	0.003		1.4	-0.004	0.005	-0.004	2.36

2297-FA		0.01		0.009		-0.003		0.008		25.7	-0.002		-0.001	0.005		0.001		0.4	1.94	0.001		1.3	-0.001	-0.016	-0.018	2.27
2297-UFA		0.02	-0.006	0.027	-0.006	-0.004	-0.002	0.008	0.001	24.6	0.000	-0.001	0.000	0.009	-0.005	0.005	0.008	0.5	1.91	0.001	0.001	1.3	-0.001	0.034	0.010	2.26
2542-RA	7.58	0.31		1.455		0.001		0.003		58.1	0.003		-0.001	0.017		1.484		0.7	3.83	0.677		3.3	0.000	-0.035	0.006	5.67
2542-FA		0.27		0.047		0.000		0.002		56.2	0.002		-0.001	0.003		0.189		0.7	3.69	0.653		3.2	0.000	0.000	0.000	5.08
2542-UFA		0.28	0.029	0.038	1.417	-0.001	0.003	0.004	0.000	55.6	0.003	0.000	0.000	0.004	0.012	0.164	1.320	1.0	3.67	0.649	0.027	3.2	-0.001	0.000	-0.005	5.07
2982A-RA	7.00	0.32		1.367		-0.008		0.002		58.3	0.002		0.000	0.018		1.433		0.6	3.87	0.684		3.3	0.000	-0.011	0.003	5.63
2982A-FA		0.26		0.040		-0.003		0.003		57.1	0.001		0.000	0.003		0.067		1.0	3.76	0.667		3.3	0.001	-0.025	-0.001	5.10
2982A-UFA		0.26	0.054	0.036	1.331	0.008	-0.016	0.002	-0.001	56.3	0.002	0.000	0.000	0.005	0.013	0.055	1.378	0.5	3.75	0.662	0.022	3.3	0.000	-0.018	-0.010	5.13
2982B-RA	7.07	0.30		1.352		-0.001		0.000		57.3	0.002		-0.001	0.017		1.414		0.6	3.78	0.675		3.3	-0.002	-0.024	-0.005	5.53
2982B-FA		0.25		0.037		-0.015		0.003		56.7	0.004		-0.001	0.001		0.055		0.7	3.74	0.663		3.3	0.001	-0.049	-0.011	5.07
2982B-UFA		0.26	0.039	0.042	1.310	-0.013	0.011	0.002	-0.001	56.3	0.003	-0.001	-0.001	0.004	0.014	0.044	1.370	0.6	3.72	0.660	0.014	3.3	-0.002	-0.042	-0.014	5.07
3053-RA	7.22	0.01		0.012		-0.007		0.003		22.9	-0.003		0.003	0.008		0.008		0.8	2.03	0.001		1.3	-0.001	0.036	-0.007	2.06
3053-FA		0.01		0.021		-0.006		0.002		22.8	-0.001		0.004	0.007		0.003		0.6	2.00	0.001		1.3	-0.001	0.022	0.013	2.05
3053-UFA		0.01	0.001	0.031	-0.018	-0.011	0.005	0.003	0.001	22.8	-0.003	0.000	0.000	0.011	-0.003	0.005	0.002	0.3	1.99	0.000	0.001	1.3	0.002	0.043	-0.013	2.05
3342-RA	7.82	0.30		1.260		-0.006		0.001		56.6	0.002		-0.001	0.017		1.336		0.7	3.77	0.673		3.3	0.000	-0.019	0.010	5.46
3342-FA		0.25		0.032		-0.003		0.002		56.4	0.002		0.000	0.002		0.031		0.8	3.77	0.669		3.3	-0.002	0.000	-0.003	5.05
3342-UFA		0.28	0.015	0.031	1.229	-0.001	-0.006	0.000	0.001	54.5	0.003	-0.001	-0.001	0.016	0.001	0.029	1.307	0.5	3.68	0.652	0.021	3.2	-0.001	0.000	-0.003	5.09
3733-RA	7.03	0.31		1.330		-0.006		0.001		58.2	0.004		-0.002	0.017		1.463		0.8	3.96	0.699		3.4	-0.001	-0.036	-0.003	5.64
3733-FA		0.25		0.031		-0.003		0.002		56.6	0.001		-0.001	0.002		0.011		0.8	3.84	0.675		3.3	0.000	0.000	0.001	5.06
3733-UFA		0.23	0.081	0.044	1.286	-0.003	-0.003	0.000	0.001	56.3	0.003	0.001	-0.001	0.001	0.016	0.005	1.457	0.8	3.82	0.668	0.032	3.3	0.001	0.000	-0.005	5.04
3763-RA	7.07	0.01		0.000		0.003		-0.001		22.0	-0.002		0.000	0.002		0.015		0.5	2.65	0.002		1.3	0.005	0.012	-0.001	1.66
3763-FA		0.01		0.003		0.011		0.000		21.4	-0.002		0.000	0.004		0.003		0.3	2.57	0.001		1.3	0.001	-0.003	0.010	1.60
3763-UFA		0.02	-0.014	0.003	-0.003	-0.010	0.013	-0.001	-0.001	20.7	-0.001	0.000	0.000	0.013	-0.011	0.007	0.009	0.3	2.54	0.001	0.001	1.3	0.001	0.008	0.003	1.61
4003-RA	7.74	0.31		1.430		0.007		0.003		58.0	-0.002		0.001	0.020		1.849		0.7	4.28	0.671		3.5	0.005	0.031	0.015	5.80
4003-FA		0.23		0.022		-0.003		0.003		55.9	-0.001		-0.001	0.001		0.026		0.5	4.02	0.627		3.3	0.003	-0.020	-0.003	4.93
4003-UFA		0.24	0.069	0.045	1.386	0.006	0.000	0.003	-0.001	54.1	0.001	-0.003	0.000	0.006	0.013	0.017	1.833	0.6	3.98	0.612	0.058	3.3	0.000	0.010	0.013	4.90
4353-RA	6.99	0.30		1.402		0.000		0.001		57.9	-0.004		0.001	0.020		1.671		0.8	3.83	0.633		3.4	0.003	0.003	0.020	5.58
4353-FA		0.23		0.012		0.004		0.001		56.0	-0.001		0.000	0.001		0.028		0.5	3.70	0.605		3.3	0.005	0.026	0.002	4.95
4353-UFA		0.24	0.062	0.022	1.380	0.006	-0.006	0.001	0.000	56.9	-0.001	-0.003	0.000	0.006	0.014	0.013	1.658	0.7	3.75	0.616	0.017	3.4	0.003	0.007	0.010	5.00
4773-RA	6.99	0.30		1.374		-0.010		0.001		57.6	0.002		-0.001	0.019		1.586		0.9	3.79	0.631		3.5	0.002	0.029	0.012	5.55
4773-FA		0.23		0.029		-0.014		0.002		55.0	0.000		0.000	0.003		0.024		0.9	3.60	0.599		3.3	0.001	0.012	-0.001	4.87
4773-UFA		0.22	0.081	0.042	1.331	-0.005	-0.005	0.001	0.000	53.9	0.000	-0.002	0.000	0.004	0.016	0.016	1.570	0.9	3.58	0.590	0.041	3.2	0.003	0.024	-0.002	4.85
5073-RA	6.91	0.30		1.383		0.001		0.003		56.4	0.002		0.000	0.019		1.586		0.6	3.73	0.617		3.4	0.000	0.039	0.022	5.44
5073-FA		0.22		0.043		-0.009		0.002		55.3	0.003		0.002	0.003		0.013		0.9	3.65	0.599		3.3	0.001	0.013	0.009	4.86
5073-UFA		0.22	0.077	0.032	1.350	-0.015	0.016	0.001	0.002	53.9	0.003	-0.001	-0.001	0.004	0.015	0.006	1.581	0.7	3.57	0.588	0.028	3.3	0.002	0.006	0.012	4.78
5123-RA	7.08	0.01		0.000		-0.013		0.004		31.4	0.001		0.000	0.002		0.001		0.5	4.96	0.001		1.7	-0.001	0.041	0.038	2.44
5123-UFA		0.01	0.000	-0.002	0.002	0.005	-0.019	0.005	-0.001	30.7	0.002	-0.001	0.002	0.004	-0.003	-0.001	0.001	0.7	4.86	0.000	0.000	1.6	0.000	0.005	0.017	2.40
5493-RA	7.84	0.29		1.259		0.001		0.003		56.5	0.003		0.000	0.018		1.453		0.9	3.77	0.615		3.4	0.002	0.018	0.020	5.41
5493-FA		0.23		0.046		0.000		0.003		55.1	0.002		0.000	0.002		0.019		0.8	3.67	0.594		3.3	0.002	0.009	0.006	4.85
5493-UFA		0.26	0.037	0.139	1.120	-0.002	0.004	0.002	0.002	54.8	0.002	0.001	0.001	0.007	0.011	0.020	1.433	0.8	3.66	0.593	0.022	3.3	-0.001	-0.006	0.007	4.89
5723-RA	7.17	0.00		0.058		-0.005		0.003		8.3	0.003		0.000	0.001		0.049		0.4	1.33	0.004		0.7	0.005	0.039	0.014	1.92
5723-UFA		0.01	-0.002	0.021	0.037	0.009	-0.014	0.000	0.003	8.3	0.002	-0.001	0.001	0.003	-0.002	0.008	0.042	0.7	1.32	0.001	0.003	0.7	0.003	0.038	0.036	1.89
5908-RA	7.08	0.30		1.265		-0.009		0.003		56.2	0.001		0.001	0.018		1.465		0.8	3.75	0.613		3.4	0.004	0.004	0.016	5.39
5908-FA		0.22		0.039		-0.001		0.001		55.1	0.001		0.000	0.003		0.013		0.9	3.68	0.597		3.4	0.001	0.002	0.007	4.86
5908-UFA		0.22	0.077	0.040	1.225	-0.009	0.000	0.002	0.001	54.7	0.003	-0.002	0.001	0.006	0.013	0.004	1.461	0.8	3.65	0.594	0.020	3.3	0.003	0.001	0.011	4.85

6268-RA	6.86	0.31		1.242		0.007		0.001		57.7	0.002		0.000	0.018		1.428		0.8	3.84	0.627		3.5	0.000	0.012	0.004	5.51
6268-FA		0.23		0.042		-0.014		0.001		55.1	0.001		0.000	0.003		0.016		0.8	3.68	0.599		3.3	0.002	-0.002	0.005	4.86
6268-UFA		0.24	0.069	0.052	1.190	-0.001	0.007	0.001	0.000	56.5	0.003	-0.001	0.000	0.003	0.015	0.007	1.421	0.9	3.77	0.611	0.016	3.4	0.000	0.006	0.002	4.96
6538-RA	7.23	0.01		0.030		-0.011		0.002		30.3	0.001		0.001	0.005		0.072		1.2	6.07	0.005		1.2	0.005	0.007	0.015	2.63
6538-FA		0.00		0.008		-0.027		0.001		30.2	0.001		0.002	0.004		0.004		0.9	6.06	0.001		1.2	0.000	0.005	0.035	2.56
6538-UFA		0.01	-0.002	0.020	0.010	-0.030	0.019	0.006	-0.004	30.4	0.001	-0.001	0.002	0.010	-0.006	0.004	0.068	1.0	6.09	0.001	0.004	1.2	0.003	0.034	0.032	2.57
6788-RA	8.01	0.31		1.222		-0.008		0.002		57.6	0.003		0.000	0.018		1.402		1.0	3.84	0.626		3.5	0.002	0.027	0.010	5.48
6788-FA		0.23		0.043		-0.001		0.003		55.8	0.001		0.001	0.002		0.011		0.8	3.73	0.605		3.4	0.005	-0.016	-0.004	4.92
6788-UFA		0.23	0.080	0.039	1.182	-0.003	-0.005	0.002	-0.001	54.9	0.001	0.002	0.000	0.004	0.014	0.006	1.397	0.7	3.71	0.599	0.027	3.3	0.001	-0.011	0.015	4.94
7208-RA	7.38	0.32		1.222		0.004		0.004		58.6	0.001		0.000	0.016		1.389		0.9	3.91	0.638		3.5	0.001	0.037	0.009	5.57
7208-FA		0.23		0.049		-0.003		0.002		56.3	0.002		0.000	0.003		0.005		0.6	3.77	0.607		3.4	0.001	-0.002	0.009	4.93
7208-UFA		0.22	0.096	0.048	1.174	-0.008	0.012	0.002	0.002	56.6	0.003	-0.002	0.000	0.006	0.010	-0.001	1.390	0.8	3.78	0.611	0.027	3.4	0.000	-0.002	0.012	4.97
7496-RA	7.41	0.01		0.008		-0.013		0.000		20.5	0.003		-0.001	0.004		0.011		0.5	2.02	0.001		1.5	0.001	0.009	0.038	1.80
7496-UFA		0.01		0.019	-0.011	0.001	-0.013	0.001	-0.001	20.6	0.001	0.002	0.001	0.004	-0.001	0.002	0.009	0.6	2.06	0.000	0.001	1.5	0.001	0.023	0.034	1.79
7786-RA	7.91	0.31		1.202		0.005		0.001		57.4	0.002		0.000	0.016		1.398		0.9	3.83	0.621		3.4	0.003	0.009	0.026	5.49
7786-FA		0.22		0.042		-0.005		0.003		56.2	0.001		0.000	0.002		0.001		0.9	3.75	0.603		3.4	0.002	-0.019	0.017	4.91
7786-UFA		0.22	0.089	0.048	1.154	-0.006	0.011	0.001	0.000	56.1	0.002	-0.001	0.000	0.003	0.012	0.002	1.397	0.8	3.74	0.603	0.018	3.4	0.001	-0.005	0.011	4.91
8086-RA	7.24	0.31		1.156		-0.001		0.003		57.0	0.002		0.000	0.017		1.308		0.9	3.80	0.615		3.4	0.001	0.036	0.012	5.43
8086-FA		0.22		0.047		0.005		0.002		56.3	0.000		0.000	0.004		0.000		0.8	3.76	0.604		3.4	0.000	-0.005	0.019	4.92
8086-UFA		0.22	0.091	0.045	1.111	-0.012	0.011	0.002	0.000	54.2	0.002	0.000	-0.001	0.004	0.013	-0.002	1.310	0.8	3.66	0.583	0.032	3.3	0.000	0.009	0.018	4.82
8466-RA	7.19	0.31		1.176		0.000		0.000		55.4	0.002		0.000	0.016		1.357		0.8	3.70	0.596		3.3	0.001	0.008	0.009	5.29
8466-FA		0.22		0.042		-0.005		0.000		55.0	0.003		0.000	0.002		0.004		0.8	3.67	0.588		3.3	0.005	0.027	0.005	4.79
8466-UFA		0.23	0.082	0.046	1.130	-0.001	0.001	0.003	-0.003	53.9	0.002	0.000	0.000	0.008	0.007	0.002	1.355	0.9	3.65	0.581	0.016	3.2	0.002	0.028	0.023	4.79
8486-RA	8.05	0.00		0.004		0.001		0.004		20.3	0.003		0.000	0.000		0.012		0.0	4.96	0.003		0.7	-0.001	-0.048	-0.023	1.33
8486-FA		0.00		0.007		-0.003		0.002		20.2	0.003		-0.002	0.000		-0.001		0.0	4.89	0.000		0.7	-0.003	0.000	-0.014	1.32
8486-UFA		0.00	-0.002	0.019	-0.016	-0.018	0.019	0.000	0.004	19.8	0.003	0.001	-0.001	0.004	-0.003	-0.002	0.014	0.0	4.87	0.000	0.003	0.7	-0.005	0.000	-0.010	1.31
8651-RA	7.31	0.32		1.128		0.002		0.003		56.6	0.002		0.000	0.017		1.286		0.8	3.82	0.610		3.4	0.000	0.037	0.013	5.36
8651-FA		0.22		0.049		0.005		0.003		54.7	0.001		0.002	0.004		0.006		1.1	3.71	0.585		3.3	0.000	-0.009	0.005	4.78
8651-UFA		0.22	0.094	0.049	1.079	0.003	-0.001	0.001	0.002	54.4	0.003	-0.001	0.000	0.003	0.014	-0.003	1.289	0.8	3.71	0.582	0.028	3.3	-0.001	-0.009	0.012	4.75
10171-RA	7.19	0.32		1.136		0.002		0.002		56.9	0.003		-0.001	0.015		1.305		0.8	3.86	0.606		3.2	0.000	-0.020	-0.001	5.36
10171-FA		0.24		0.043		-0.003		0.001		54.0	0.004		0.001	0.002		0.007		0.7	3.66	0.570		3.1	-0.002	-0.024	-0.002	4.65
10171-UFA		0.28	0.047	0.037	1.100	0.000	0.002	0.002	0.000	53.2	0.002	0.001	-0.002	0.007	0.008	-0.001	1.305	0.6	3.61	0.564	0.041	3.0	-0.001	-0.040	0.004	4.64
10231-RA	7.40	0.01		0.094		-0.007		-0.002		4.8	0.001		0.002	0.004		0.020		0.7	1.56	0.006		0.6	0.001	0.053	0.033	1.54
10231-FA		0.01		0.032		-0.014		-0.001		4.9	0.002		0.000	0.004		0.008		0.8	1.54	0.002		0.6	0.000	0.004	0.023	1.54
10231-UFA		0.02	-0.017	0.013	0.080	-0.016	0.008	-0.001	0.000	4.5	0.002	-0.001	0.003	0.007	-0.003	0.002	0.018	0.8	1.47	0.002	0.004	0.6	0.003	0.008	0.026	1.54
10621-RA	7.18	0.28		0.988		-0.005		0.001		49.6	0.003		0.001	0.014		1.125		1.0	3.51	0.521		3.0	0.003	0.017	0.018	4.85
10621-FA		0.21		0.052		-0.007		0.001		47.4	0.000		0.001	0.004		0.011		1.0	3.36	0.496		2.9	0.004	0.019	0.016	4.30
10621-UFA		0.21	0.075	0.039	0.950	-0.006	0.001	0.001	-0.001	46.5	0.002	0.001	0.000	0.005	0.009	0.008	1.117	0.8	3.33	0.490	0.031	2.9	0.000	0.018	0.016	4.33

Sic	Srd	Src	Znd	Znc
	0.42		0.217	
0.53	0.42	0.00	0.187	0.030
	0.56		0.259	
0.30	0.54	0.02	0.256	0.003
	0.43		0.221	
	0.42		0.189	
0.76	0.41	0.02	0.198	0.024
	0.68		0.415	
	0.64		0.350	
0.52	0.64	0.04	0.355	0.060
	0.61		0.347	
	0.59		0.304	
0.53	0.57	0.04	0.281	0.066
	0.58		0.327	
	0.57		0.288	
0.41	0.57	0.01	0.315	0.012
	0.57		0.315	
	0.56		0.278	
0.50	0.54	0.03	0.220	0.095
	0.53		0.296	
	0.52		0.260	
0.65	0.49	0.04	0.262	0.033
	0.53		0.288	
	0.52		0.261	
0.47	0.51	0.01	0.256	0.032
	0.57		0.313	
	0.53		0.258	
0.66	0.54	0.02	0.274	0.039
	0.57		0.307	
	0.53		0.245	
0.65	0.55	0.02	0.250	0.057
	0.55		0.308	
	0.56		0.266	
0.34	0.56	-0.01	0.286	0.022
	0.58		0.322	
	0.56		0.280	
0.54	0.55	0.03	0.274	0.048
	0.55		0.309	
	0.55		0.273	
0.48	0.55	0.00	0.275	0.035
	0.55		0.315	
	0.54		0.267	
0.56	0.54	0.01	0.277	0.039
	0.12		0.009	

	0.12		0.006	
0.11	0.11	0.01	0.016	-0.006
	0.56		0.311	
	0.54		0.274	
0.59	0.54	0.03	0.282	0.029
	0.56		0.318	
	0.55		0.256	
0.50	0.54	0.02	0.264	0.054
	0.55		0.303	
	0.55		0.253	
0.46	0.55	0.01	0.264	0.039
	0.27		0.008	
	0.27		0.008	
0.01	0.27	0.00	0.008	0.001
	0.55		0.299	
	0.55		0.253	
0.37	0.53	0.02	0.284	0.015
	0.57		0.309	
	0.55		0.247	
0.60	0.55	0.02	0.228	0.081
	0.20		0.010	
	0.20		0.005	
0.06	0.19	0.01	0.025	-0.014
	0.56		0.307	
	0.53		0.225	
0.90	0.52	0.04	0.238	0.069
	0.56		0.303	
	0.54		0.228	
0.59	0.55	0.01	0.241	0.062
	0.56		0.302	
	0.53		0.226	
0.70	0.52	0.04	0.220	0.081
	0.54		0.297	
	0.53		0.224	
0.65	0.52	0.02	0.219	0.077
	0.13		0.006	
0.04	0.13	0.00	0.006	0.000
	0.55		0.294	
	0.53		0.226	
0.52	0.53	0.02	0.256	0.037
	0.03		0.004	
0.03	0.03	0.00	0.006	-0.002
	0.54		0.300	
	0.53		0.225	
0.54	0.53	0.01	0.223	0.077

	0.56		0.306	
	0.53		0.230	
0.54	0.55	0.01	0.237	0.069
	0.09		0.009	
	0.09		0.004	
0.06	0.09	0.00	0.011	-0.002
	0.56		0.307	
	0.54		0.226	
0.54	0.53	0.02	0.227	0.080
	0.57		0.315	
	0.54		0.226	
0.60	0.55	0.02	0.219	0.096
	0.22		0.006	
0.009	0.22	-0.001	0.007	-0.001
	0.55		0.308	
	0.54		0.216	
0.58	0.54	0.01	0.218	0.089
	0.55		0.308	
	0.54		0.224	
0.60	0.52	0.03	0.217	0.091
	0.53		0.309	
	0.52		0.223	
0.50	0.52	0.02	0.227	0.082
	0.05		0.001	
	0.05		0.000	
0.03	0.05	0.00	0.002	-0.002
	0.54		0.316	
	0.52		0.225	
0.62	0.52	0.02	0.223	0.094
	0.54		0.324	
	0.51		0.236	
0.72	0.51	0.04	0.277	0.047
	0.03		0.006	
	0.03		0.008	
0.00	0.03	0.00	0.023	-0.017
	0.47		0.283	
	0.45		0.214	
0.51	0.44	0.03	0.208	0.075

300-RA	1.84293	0.00324	0	48.41558	0.00277	-0.00156	0.02799	2.60908	0.08342
300	1.821	-0.004	0.001	48.636	0.000	0.001	0.030	2.600	0.350
difference	0.02161	0.00701	0.00098	0.22064	0.00326	0.00239	0.00219	0.00905	0.26632
mean	1.83213	-0.00027	0.00049	48.5259	0.00114	-0.00037	0.02909	2.60456	0.21658
300-FA	0.02114	-0.00337	0.00033	48.38292	0.00397	-0.00044	0.00098	0.72041	0.26068
	0.010	0.012	0.003	48.227	-0.002	0.001	0.006	0.723	0.531
difference	0.01135	0.01552	0.00295	0.15627	0.00587	0.00161	0.00462	0.00274	0.2704
mean	0.01547	0.00439	0.00181	48.30479	0.00104	0.00037	0.00329	0.72178	0.39588
390-RA	0.32368	-0.00561	0.01089	59.48486	0.00393	-0.00039	0.00043	0.00368	1.1366
390	0.285	-0.018	0.007	58.195	-0.004	0.003	0.005	0.010	0.764
difference	0.03912	0.01234	0.00399	1.28986	0.00783	0.00303	0.00415	0.00601	0.37236
mean	0.30412	-0.01178	0.00890	58.83993	0.00002	0.00113	0.00251	0.00669	0.95042
390-FA	0.29197	-0.00689	0.00891	57.59405	0.00196	0.00039	0.00175	-0.00299	0.77163
	0.27992	-0.00761	0.01249	55.69113	0.0013	0.00447	0.00733	0.00488	1.1917
difference	0.01205	0.00072	0.00358	1.90292	0.00066	0.00408	0.00558	0.00787	0.42007
mean	0.28595	-0.00725	0.0107	56.64259	0.00163	0.00243	0.00454	0.00095	0.98167

4.03377	0.27212	4.93535	-0.00142	-0.06323	0.00307	5.61471	0.42334	0.21716
4.030	0.273	5.057	0.006	-0.037	0.014	5.586	0.423	0.217
0.00424	0.0011	0.12189	0.00743	0.02667	0.01083	0.02845	0.00079	0.00033
4.03165	0.27267	4.99630	0.00230	-0.04990	0.00849	5.60049	0.42295	0.21733
4.02207	0.26886	4.88051	-0.00274	-0.1009	-0.00744	5.08818	0.42181	0.18689
4.014	0.272	5.068	0.006	-0.068	-0.020	5.048	0.420	0.188
0.0085	0.00325	0.18784	0.00907	0.03275	0.01274	0.03984	0.00202	0.00093
4.01782	0.27049	4.97443	0.00180	-0.08453	-0.01381	5.06826	0.4208	0.18736
4.9869	0.10457	3.4194	0.00208	-0.03318	-0.00409	8.28664	0.57043	0.26324
4.837	0.103	3.484	0.004	-0.032	-0.004	8.049	0.556	0.255
0.14941	0.002	0.06509	0.00161	0.0016	0.00011	0.23732	0.01481	0.00775
4.91220	0.10357	3.45195	0.00289	-0.03238	-0.00404	8.16798	0.56303	0.25937
4.81968	0.10111	3.309	0.00087	-0.08431	-0.01228	8.03698	0.55227	0.26034
4.64363	0.09829	3.36062	0.00696	-0.02742	-0.01492	7.70896	0.5253	0.25248
0.17605	0.00282	0.05162	0.00609	0.05689	0.00264	0.32802	0.02697	0.00786
4.73166	0.0997	3.33481	0.00392	-0.05587	-0.0136	7.87297	0.53879	0.25641